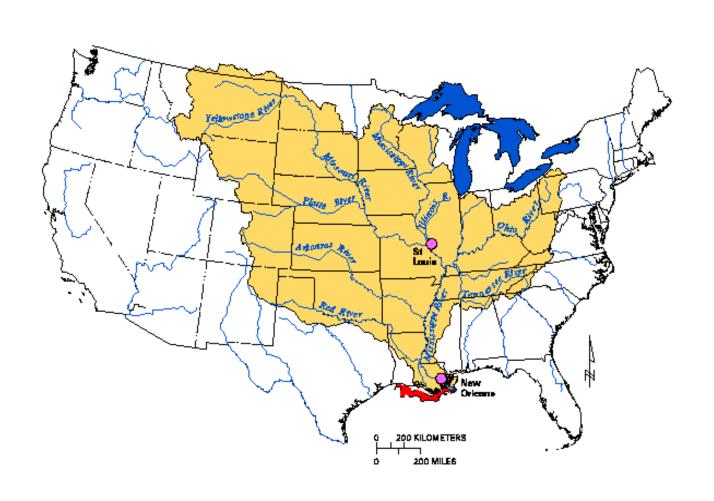
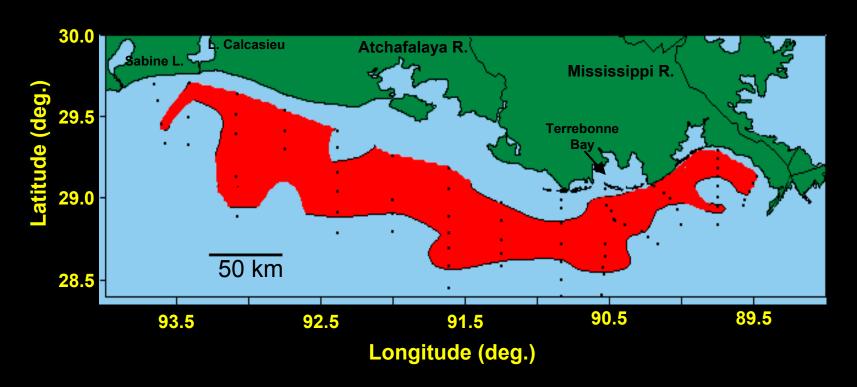
MISSISSIPPI – ATCHAFALAYA RIVER BASIN



July 23-28, 1999, Shelfwide Oxygen Survey

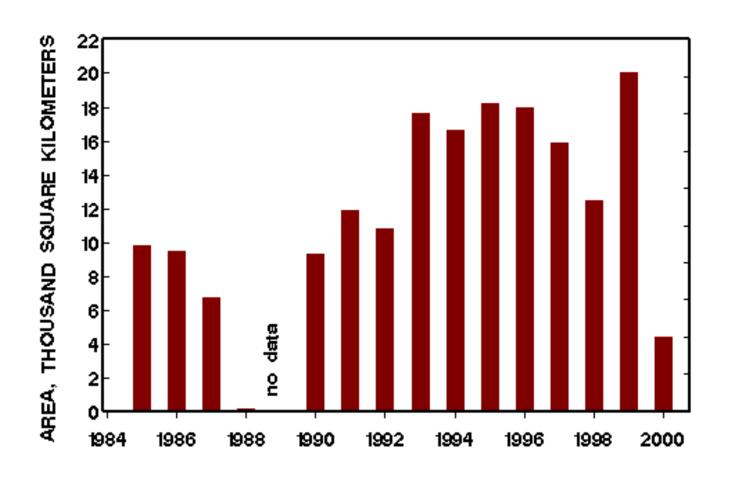


Bottom Dissolved Oxygen Less than 2.0 mg/L

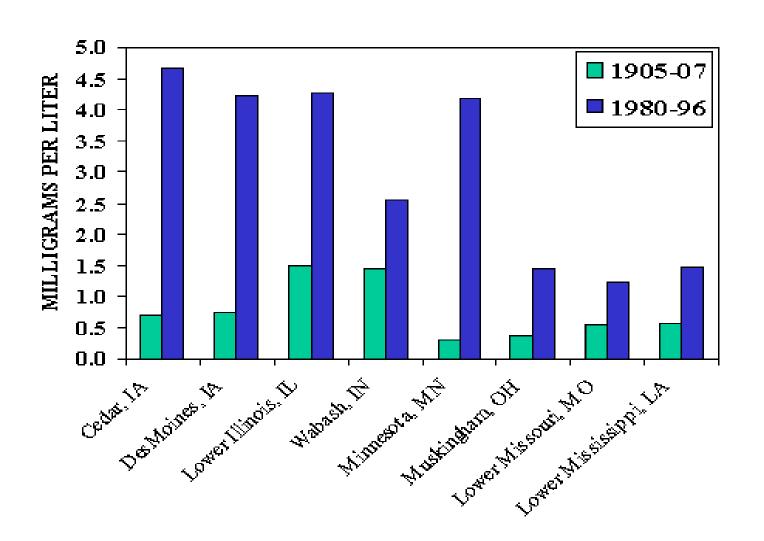
(Rabalais, Turner & Wiseman)

Area of Hypoxic Zone, 1985-2000

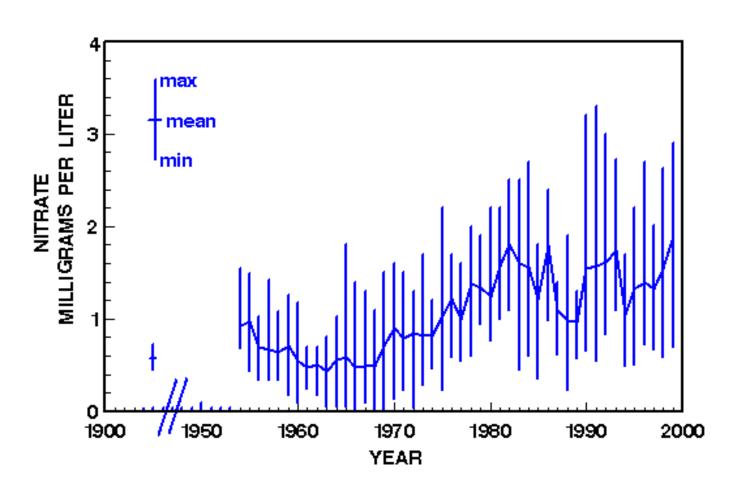
Source: N.N. Rabalais, Louisiana Universities Marine Consortium, Chauvin, La.



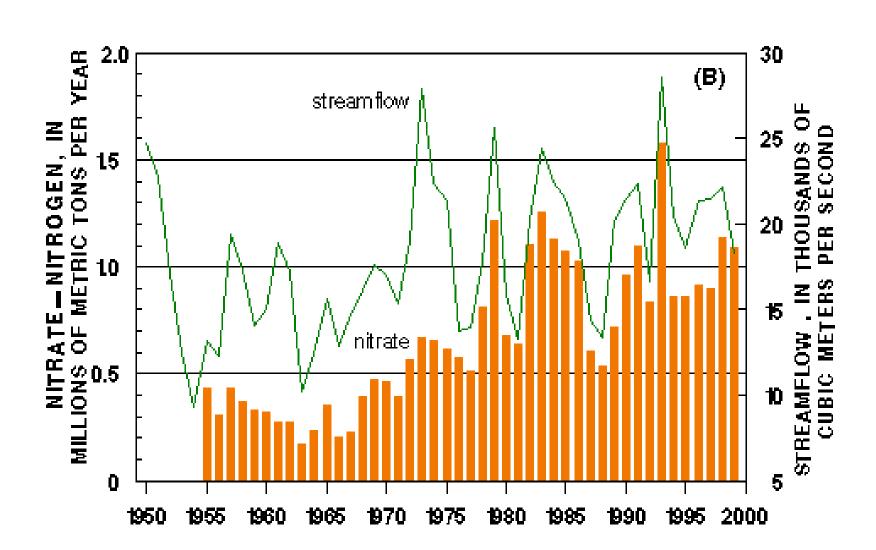
Average annual nitrate concentrations in the Mississippi River Basin in 1905-07 and in 1980-98



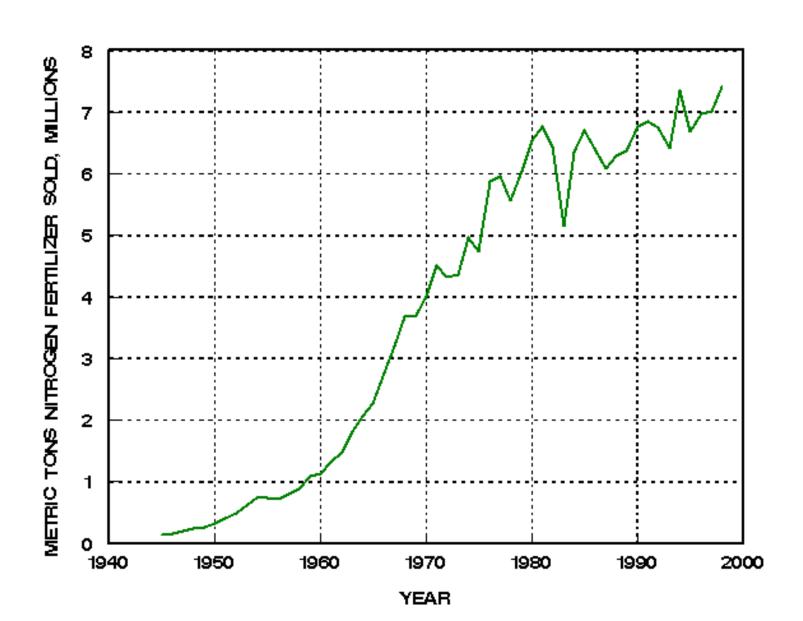
NITRATE CONCENTRATION IN LOWER MISSISSIPPI RIVER, 1955-1999



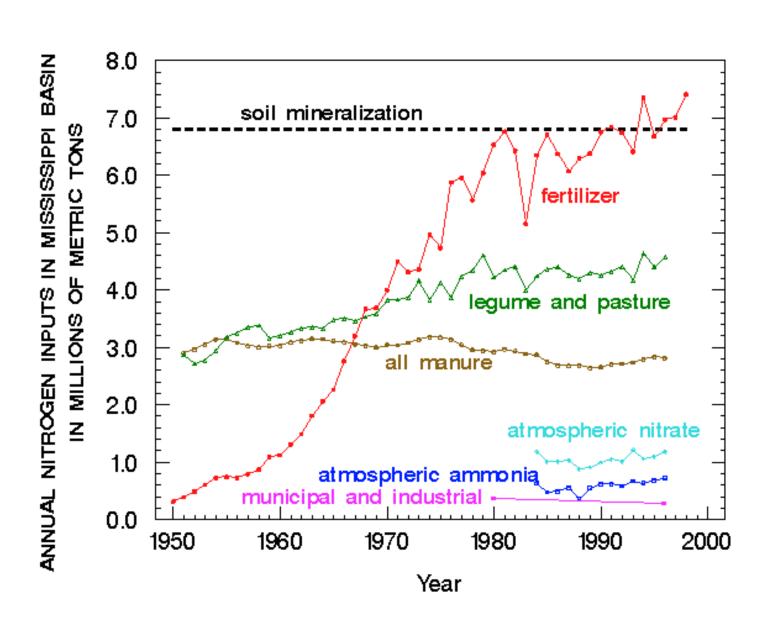
ANNUAL NITRATE FLUX TO GULF OF MEXICO AND MEAN ANNUAL STREAMFLOW

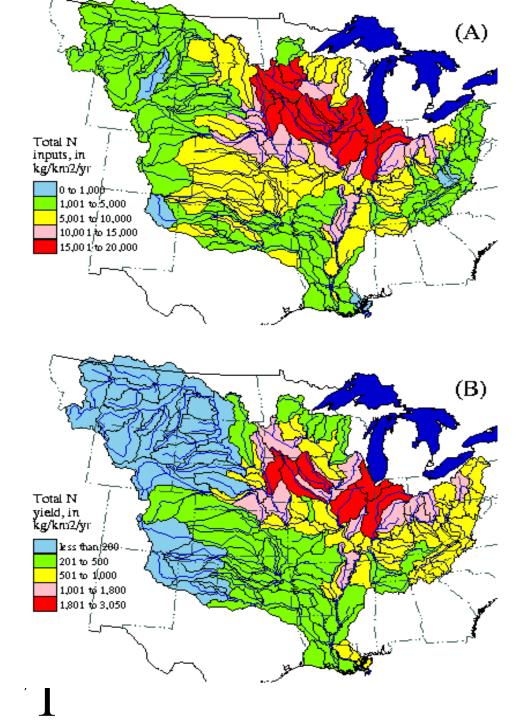


NITROGEN FERTILIZER USE IN THE MISSISSIPPI RIVER BASIN



NITROGEN INPUTS TO THE MISSISSIPPI RIVER BASIN





- (A) Estimated Nitrogen inputs to the Mississippi River Basin, from all sources, in 1992.
- (B) Estimated total nitrogen yields of hydrologic accounting units in the Mississippi River Basin (1980-96)

ANNUAL NITRATE FLUX – OBSERVED, AND PREDICED FROM MULTIPLE REGRESSION MODEL

